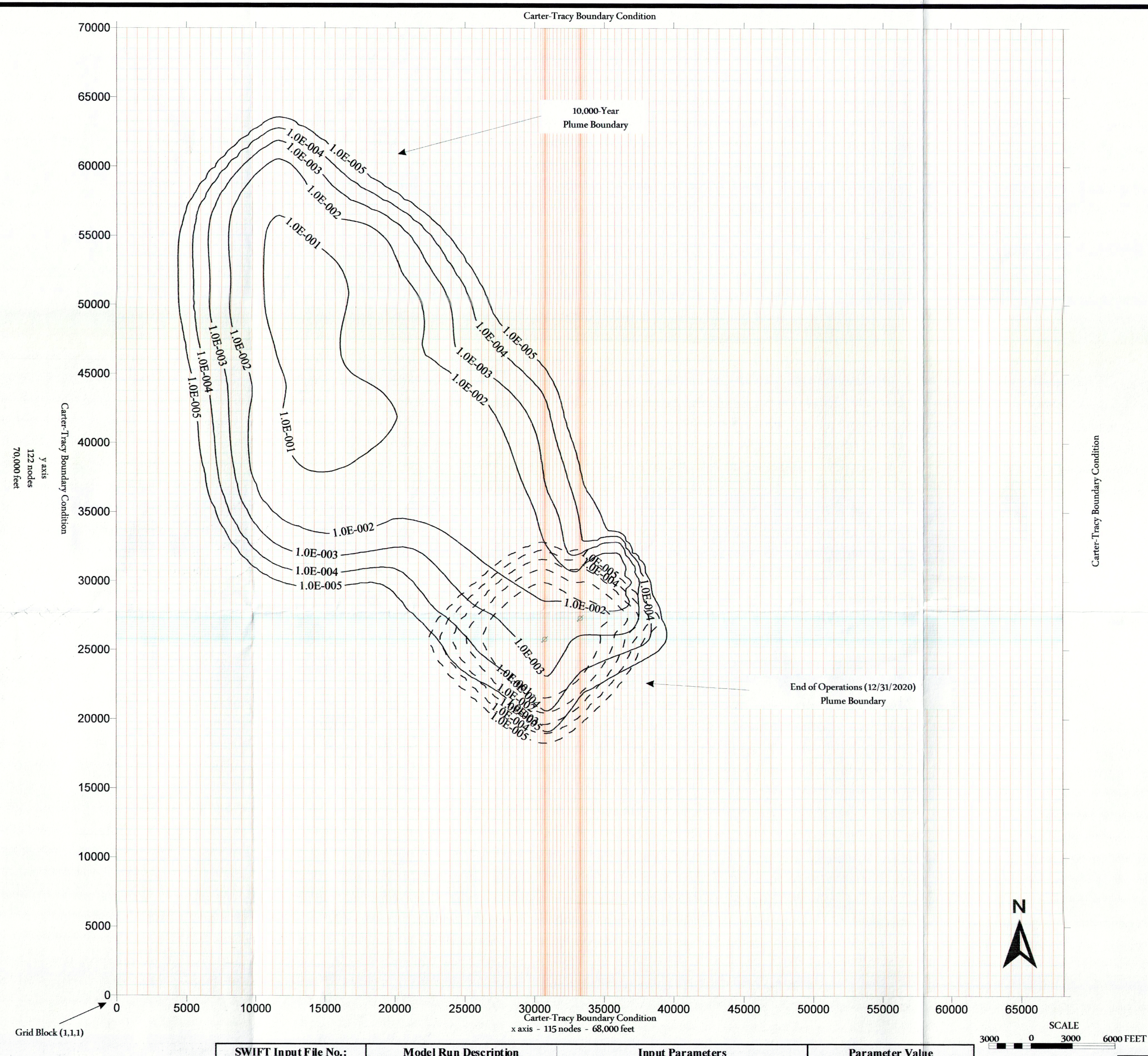


SWIFT Input File No.:	Model Run Description	Input Parameters	Parameter Value
ExMob_AB.dat	Models waste plume migration for 10,000 years in Frio A/B Sand. End of operations on 12/31/2020. Historical injection from July 1, 2008 until December 31, 2008 at 700 gpm into WDW-397. Future injection from January 1, 2009 until December 31, 2009 at 1,200 into WDW-397.	Reservoir Flow Capacity Hydraulic Conductivity Intrinsic Permeability (k) Porosity Reservoir Thickness (h) Reservoir Dip Injectate Density Injectate Specific Gravity Injectate Viscosity* Reservoir Brine Density Reservoir Brine Specific Gravity Reservoir Brine Viscosity* Ground Water Flow Rate Rock Compressibility Fluid Compressibility Reservoir Temperature SWIFT Effective Diffusion Coefficient Longitudinal and Lateral Dispersivity	250,000 mD-ft 11.832 ft/day 2,000 mD 0.28 125 ft variable structure 61.38 lb/ft ³ @ 173 °F 1.00 @ 60 °F 0.353 cP @ 173 °F 66.65 lb/ft ³ @ 173 °F 1.091 @ 60 °F 0.495 cP @ 173 °F 0.0 ft/yr 3.20 x 10 ⁻⁶ psi ⁻¹ 2.39 x 10 ⁻⁶ psi ⁻¹ 173 °F 8.24 x 10 ⁻⁴ ft ² /day 100 ft and 10 ft

* variable viscosity with temperature from 60 °F to 200 °F
MODEL RESULTS SUMMARY: The end of operation waste plume is ovoid in shape. The end of operations waste plume (12/31/2020) is approximately 16,700 feet long and approximately 14,600 feet wide. The injected waste plume extends 41,300 feet up-gradient toward Clinton Dome, approximately 15,500 feet up-gradient toward the northeast, and 7,100 feet down-gradient from the WDW-397 injection well and is approximately 26,700 feet wide at its widest point after 10,000 years.



SWIFT Input File No.:	Model Run Description	Input Parameters	Parameter Value
ExMob_AB_398.dat	Models waste plume migration for 10,000 years in Frio A/B Sand. End of operations on 12/31/2020. Historical injection from July 1, 2008 until December 31, 2008 at 700 gpm into WDW-397. Future injection from January 1, 2009 until December 31, 2009 at 1,200 into WDW-398.	Reservoir Flow Capacity Hydraulic Conductivity Intrinsic Permeability (k) Porosity Reservoir Thickness (h) Reservoir Dip Injectate Density Injectate Specific Gravity Injectate Viscosity* Reservoir Brine Density Reservoir Brine Specific Gravity Reservoir Brine Viscosity* Ground Water Flow Rate Rock Compressibility Fluid Compressibility Reservoir Temperature SWIFT Effective Diffusion Coefficient Longitudinal and Lateral Dispersivity	250,000 mD-ft 11.832 ft/day 2,000 mD 0.28 125 ft variable structure 61.38 lb/ft ³ @ 173 °F 1.00 @ 60 °F 0.353 cP @ 173 °F 66.65 lb/ft ³ @ 173 °F 1.091 @ 60 °F 0.495 cP @ 173 °F 0.0 ft/yr 3.20 x 10 ⁻⁶ psi ⁻¹ 2.39 x 10 ⁻⁶ psi ⁻¹ 173 °F 8.24 x 10 ⁻⁴ ft ² /day 100 ft and 10 ft

* variable viscosity with temperature from 60 °F to 200 °F
MODEL RESULTS SUMMARY: The end of operation waste plume is ovoid in shape. The end of operations waste plume (12/31/2020) is approximately 16,500 feet long and approximately 14,500 feet wide. The injected waste plume extends 42,500 feet up-gradient toward Clinton Dome and 5,400 feet down-gradient from the WDW-398 injection well and is approximately 26,000 feet wide at its widest point after 10,000 years.

PLATE 7-16

TERRA
DYNAMICS INC

**LATERAL MIGRATION
MODEL GRID AND RESULTS
(ExMob_AB & ExMob_AB_398))
(Frio A/B Sand Lateral Migration Model)**

PREPARED FOR

**EXXON MOBIL CORPORATION
PASADENA, TEXAS**

DRAWN BY:	tdm	SCALE:	As Indicated	DATE:	02-15-2011
DESIGNED BY:	SAME	CHECKED BY:	T. Moody	JOB NO.:	11-101

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